

**Abstract**

The optical distance detecting or measuring device comprises a light source with an emitting optic for  
5 projecting a light beam according to the axis of the emitting optic onto a target to be measured and a first detector defining the receiving axis contained in the same reference plane as the emitting axis. The device comprises at least a second detector that is aligned with the first  
10 detector on an axis contained in a plane that is inclined at an angle  $\alpha$  with respect to the reference plane, said angle being comprised between  $10^\circ$  and  $170^\circ$ . Alternatively, two emitters may be arranged in an inclined plane and one receiver in the reference plane. This arrangement allows a  
15 significant improvement of the performance of such a device.

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